

## ABSTRACT

The present invention provides methods and compositions for screening, diagnosis and prognosis of vascular response, for monitoring the effectiveness of vascular response treatment, identifying patients most likely to respond to a particular therapeutic treatment and for drug development. In particular, the screening of drug candidates for their ability to induce a vascular response. Vascular Response-Associated Features (VRFs), detectable by two-dimensional electrophoresis of blood, serum or plasma are described. The invention further provides Vascular Response-Associated Protein Isoforms (VRPIs) detectable in blood, serum or plasma, preparations comprising isolated VRPIs, antibodies immunospecific for VRPIs, and kits comprising the aforesaid.